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Representation Learning: Theory, Applications and Ethical Issues

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Deadline for manuscript submissions:
closed (30 June 2021)

Message from the Guest Editors

The representation problem has always been at the core of machine learning. Finding a good data representation is the common denominator of many machine learning subtopics, such as feature selection, kernel learning, and deep learning. The recent rise of deep learning technologies has opened up new and fascinating possibilities for researchers in many fields. However, deep networks often fall short when it comes to being interpreted or explained. Hence, in addition to the effectiveness of a representation, there is the need to face many related problems, for example, interpretability, robustness, and fairness.

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Message from the Editor-in-Chief

The concept of entropy is traditionally a quantity in physics that has to do with temperature. However, it is now clear that entropy is deeply related to information theory and the process of inference. As such, entropic techniques have found broad application in the sciences.

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